

DECLARATION AND POWER OF
ATTORNEY FOR PATENT APPLICATION
(37 CFR 1.63)

Declaration
Submitted
with Initial
Filing

OR

Declaration
Submitted after Initial
Filling (surcharge
(37 CFR 1.16(e))
required)

Attorney Docket Numb	er	42P19120
First Named Inventor	Fal	orice Paillet
C	OM	PLETE IF KNOWN
Application Number	10	/808,785
Filing Date	М	arch 24, 2004
Art Unit		
Examiner Name		

#### As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint Inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the Invention)	
the specification of which	
is attached hereto.	
OR .	
was filed on (If applicable):  or as United States Application Number _ PCT International Application Number	10/808,785
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.



I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States

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Patent and Tradema Direct all correspondence		ected herew mer Number	08791	or 🔲 C	orrespond	ence address below
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12700 77110	thire Boulevard, 7th	·				00005
City Los Angeles	S	State	California	į	Zip Code	90025
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Country		Telephone	(408) 720-8300		Fax	(408) 720-8383
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NAME OF SECOND INVENTOR	t: ☐ A petition has t	peen filed for this unders	igned inventor
Full Name:		avid Rennie	
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Inventor's Signature		Date	
Residence <u>Etobicoke, Ontario</u>	Canada	Citizenship Canada	
· ·	, State, Country)	<del></del>	(Country)
Mailing Address 2 Dunsany Cn	es.		
Etobicoke, On	tario M9R3W6 Canada	· · · · · · · · · · · · · · · · · · ·	
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NAME OF THIRD INVENTOR:	☐ A petition has b	een filed for this undersi	gned inventor
ull Name:		nay Karnik	
	(First, Middle [if any], Family	Name (or Surname), and Suffix [	f any])
Inventor's Signature	· · · · · · · · · · · · · · · · · · ·	Date	<del></del>
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Residence Portland, Oregon US	, State, Country)	Citizenship USA	(Country)
Mailing Address 3574 NW Blace	7.		(Country)
Portland, Orego			
NAME OF FOURTH INVENTOR:	_ ,	een filed for this undersi	g
Full Name:	Jis	a <b>nping Xu</b> Name (or Surname), and Suffix [i	67\
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nventor's Signature	705 - 2M	Date <u>6/1</u>	7/2004
Residence Portland, Oregon US	iA	Citizenship USA	
	, State, Country)	Chazeriship COA	(Country)
Malling Address 1529 NW Sloo	= =		(001)
Portland, Orego			
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NAME OF FIFTH INVENTOR:	☐ A petition has b	een filed for this undersi	gned inventor
Full Name:	Pines Middle (16 and Franch.	Name (or Surname), and Suffix [ij	c
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I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN. a firm including: William E. Alford, Reg. No. 37,764; Farzed E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, No. 43,487; Michael A. Bernadicol, Reg. No. 39,934; Royal W. Slakey, Jr., Reg. No. 23,637; Miml D. Dao, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 37,613; Sanjeet Dutta, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,613; Sanjeet Dutta, Reg. No. 46,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; J. Scott Helleson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willimore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Steve Laut, Reg. No. 47,738; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindeen III, Reg. No. 33,192; Jan C. Little, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Raul D. Martinez, Reg. No. 46,904; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. P-52,107; Marina Portnova, Reg. No. 45,750; James H. Salter, Reg. No. 35,668; William W. Schael, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Tom, Reg. No. P-52,291; Kerry D. Tweet, Reg. No. 45,959; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zandt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; C. Teresa Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 26,250; my patent attorneys, and Brent E. Vecchia, Reg. No. 48,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. Reg. No. 42,372; Robert Chang, Reg. No. 48, 765; George Chen, Reg. No. 50,807; Glen B. Chol, Reg. No. 43,648; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthla Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthla Thomas Faatz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 44,1410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issac Lin, Reg. No. 50,672; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemeler, Reg. No. 51,003; Erlk M. Metzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,898; Michael J. Nesheiwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Lanny Parker, Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 39,998; Michael D. Plimler, Reg. No. 43,004; Michael Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skebrat, Reg. No. 36,279; Paul F. Steiner, Reg. No. 50,804: 36,279; Paul E. Steiner, Reg. No. 41,326; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travis, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,654; Calvin E. Wells, Reg. No. 43,256; Stuart Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Winkle, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,780; and Steven D. Yates, Reg. No. 42,242; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, telephone (408)765-8080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent attorneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



# Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §\$1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application;
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.



DECLARATION AND POWER OF	Atterney Docket Numb	Mar 42P19120
ATTORNEY FOR PATENT APPLICATION	First Named Inventor	Pabrice Paillet
(37 CFR 1.63)	- 6	COMPLETE IF KNOWN
	Application Number	10/808,785
Declaration Submitted With initial  Filing (surcharge	Filing Date	March 24, 2004
	Art Unit	
Filing (37 CFR 1.16(e)) regulated)	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
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I hereby claim foreign priority benefits under 35 U.S.C. 118(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

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	David Rennie
(First, Middle [if any], Fatt	ily Name (or Surname). and Suffix (If any))
ventor's Signature Dany Runn	Date
esidence Embiooke, Ontario Canada	Citizenship Canada
(City, Store, Country)	(Соинту)
alling Address 2 Dunsany Cres.	
Embicoles, Ontario M9R3W6 Canada	
	s been filed for this undersigned invento
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uli Name:	Tanay Karnik
•	nily Name (or Surname), and Suffix [if any])
ventor's Signature	Date
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Residence Portland, Oregon USA (City . State, Country)	Citizenship USA (Country)
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Portland, Oregon 97229 USA  AME OF FOURTH INVENTOR: A petition has uit Name:  (First, Middle [if ony], Factory of the state of the stat	Jisoping Xu nily Name (or Surname), and Suffix (If any))  Date
Portland, Oregon 97229 USA  LAME OF FOURTH INVENTOR: A petition has  Full Name:  (First, Middle [if ony], Factority)  Residence Portland, Oregon USA  (City:, State, Country)	Jisoping Xu nily Name (or Surname), and Suffix (If any))  Date
VAME OF FOURTH INVENTOR: A petition has  Full Name:   (First, Middle [if ony], Founteentor's Signature  Residence Portland, Oregon USA  (City , Seese, Country)  Mailing Address 1529 NW Slocum Way	Jisoping Xu nily Name (or Surname), and Suffix (If any))  Date
Portland, Oregon 97229 USA  AME OF FOURTH INVENTOR: A petition has  A petition has  (First, Middle [if ony], Form  Inventor's Signature  Residence Portland, Oregon USA  (City , State, Country)  Mailing Address  1529 NW Slocian Way  Portland, Oregon 97229 USA	Jisoping Xu  nily Name (or Surname), and Suffix (If any))  Date  Citizenship USA  (Country)
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I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Petent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, a firm including: William E. Afford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbit, Reg. No. 38,591; Jordan M. Becker, Reg. No. 39,802; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 26,837; Alan Burnett, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 26,837; Allan Burnett, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 43,487; Michael Reg. No. 45,149; Gregory D. Caldwell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos. Reg. No. 37,813; Sanjaet Dutta. Reg. No. 45,020; Stephen IIII. Lee Floris, Ray. 100. 40,003; Lance III. 100 Floris, Roy. 100. 42,532; Angelo J. Gaz, Reg. No. 48,145; Tarek N. Fahrni, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 46,765; 46,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,841; J. Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 42,734 37,650; George W Hoover H, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Steve Laut, Reg. No. 47,738; Suk S. Lee, Reg. No. 47,746; Gordon R. Lindsen III, Reg. No. 33,182; Jan C. Little, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,785; Michael J. Mailla, Reg. No. 38,591; Andre L. Marsis, Reg. No. 48,095; Raul D. Martinez, Reg. No. 46,804; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 48,972; Daniel E. Ovanezian, Reg. No. 41,238; Philip A. Pedigo, Reg. No. P-62,107; Marina Portnova, Reg. No. 45,750; James H. Saltar, Reg. No. 35,668; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,096; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Torn, Reg. No. P-52,291; Kerry D. Tweet, Reg. No. 45,959; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zandt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,218; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,164; C. Teresa Wong, Reg. No. 48,042; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,164; C. Teresa Wong, Reg. No. 48,042; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,164; C. Teresa Wong, Reg. No. 48,042; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,164; C. Teresa Wong, Reg. No. 48,042; Mark L. Watson, Reg. No. 46,324; Mark L. Watson, Reg. Mark L. Watson, Reg. No. 46,324; Mark L. Watson, Reg. Mark L. Watson, Reg. Mark L. Watson, Reg. Mark L. Watson, Reg. Ma and Norman Zafman, Reg. No. 26,250; my patent attorneys, and Brent E. Vecchia, Reg. No. 48,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,805; Rob D. Anderson, Reg. No. 33,825; Shireen I. Becon, Reg. No. 40,484; Michael Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,801; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 785; George Chan, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,645; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 35,118; Jeffray S. Draeger, Reg. No. 41,000; Cynthia Thomas Featz, Reg No. 39,973; Christopher Gagne, Reg. No. 36,142; Shannini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Mope, Reg. No. 46,774; Jeffrey Robert Greenberg, Rog. No. 44, 133; pradicty Greenward, Rog. No. 36, 361; Libby Hops, Rog. Ros. 40, 774, 361169
B. Huter, Reg. No. 41,086; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,855; Issae Lin. Reg. No. 50,672; Anthony Martinez, Reg. No. 42,23; Molty McCall, Reg. No. 48,126; Larry Mennemeier, Reg. No. 50,672; Anthony Martinez, Reg. No. 53,320; Paul Nagy, Reg. No. 37,888; Michael J. Noshelwet, Reg. No. 47,849; 51,003; Erfk M. Metzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,888; Michael J. Noshelwet, Reg. No. 47,849; 51,003; Erix M. Metzger, Reg. No. 53,326; Palls Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 39,696; Dennia A. Nichtells, Reg. No. 42,035; Lanny Parker, Reg. No. 44,281; Alan Pedersen-Giles, Reg. No. 35,381; Crystal Michael D. Pfirmier, Reg. No. 43,004; Michael Prokach, Reg. No. 43,021; Kevin A. Reif, Reg. No. 35,381; Crystal D. Seyles, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,298; Ami P. Shah, Reg. No. 42,143; Oavid Simon Reg. No. 32,756; Staven P. Skabrat, Reg. No. 50,804; 38,279; Paul E. Steiner, Reg. No. 41,328; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travia, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,854; Calvin E. Wells, Reg. No. 43,256; Shuart John F. Irava, Reg. No. 43,200; Robert Wawrzyn, Reg. No. 54,506; Calvin E. Wells, Reg. No. 43,200; Steam Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Winkle, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Steven D. Yauss, Reg. No. 42,242; my patent attorneys, and my patent agants, of INTEL CORPORATION, with offices located at 2200 Mission College Blvd., Santa Clara, CA 95052, telephone (405)765-8080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent atterneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Palent and Trademark Office connected herewith.



## Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is effected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of end evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the ciaim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a ciaim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any cialm remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by \$§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully
  - (1) Prior eracited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prima facto case of unpattentability of a daim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting on argument of patentability.

A prima facto case of unpatentability is established when the information compels a conclusion that a chaim is unpatentable under the prepanderance of evidence, burden-of-proof standard, giving each term in the delimits broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentebility.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application;
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignes or with anyone to whom there is an obligation to essign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application,



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DECLARATION AND POWER OF			Attorney Docket Numb	er 42P19120
ATTORNEY FOR PATENT APPLICATION (37 CFR 1.63)		First Named Inventor	Fabrice Paillet	
		COMPLETE IF KNOWN		
			Application Number	10/808,785
Declaration Submitted		Declaration Submitted after initial	Filing Date	March 24, 2004
with Initial Filing (surcharge	Art Unit			
Filing (37 CFR 1.18(e))				

#### As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

t believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFE	RENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
	(Title of the Invention)	
he specification of which		
Is attached hereto.		•
OR		
was filed on (if applica or 03/24/2804	ble): as United States Application Number _ PCT International Application Number	10/808.785
end was amended on		(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

Lacknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Nu	ign Application mber(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
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Name E	Bakely, Sokoloff, Tay	kor & Zafiman LLP			
Address 1	2400 Wilshire Boule	vard, 7th Floor			
Caty I	os Angeles	s	tate California	Zip Cod	90025
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I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herawith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, a firm including: William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,634; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,923; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Kierk, Reg. No. 46,503; Deniel M. De Vos., Reg. No. 37,613; Sanjeet Dutta, Reg. No. 46,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; J. Scott Helleson, Reg. No. 46,765; James A. Herry, Reg. No. 41,084; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Welter T. Kim, Reg. No. 42,731; Eric Y. King, Reg. No. 44,188; Steve Leut, Reg. No. 47,738; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindsen III, Reg. No. 33,192; Jan C. Little, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,785; Michael J. Malile, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Raul D. Martinez, Reg. No. 46,904; Paul A. Mendonaa, Rog. No. 42,879; Jonethan B. Miller, Reg. No. 48,534; Heather M. Molleur, Reg. No. 50,432; Richard A. Nateshime, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rouries, Reg. No. 48,972; Deniel E. Ovenezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. P-52,107; Marina Portnova, Reg. No. 45,750; James H. Selter, Reg. No. 35,668; William W. Schael, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,128; Lisa Torn, Reg. No. P-62,291; Kerry D. Tweet, Reg. No. 45,958; Mark C. Van Ness, Reg. No. 39,885; Thomas A. Van Zandi, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,480; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 48,322; Thomas C. Webster, Reg. No. 46,154; C. Teresa Wong, Reg. No. 48.042; and Norman Zafman, Reg. No. 26,250; my patent attorneys, and Brant E. Vecchia, Reg. No. 48,011, and Lehua Weng, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilahire Boulevard, 7th Floor, Los Angeles, Catifornia 90025, telephone (310) 207-3800. I also appoint Alam K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,626; Shireen I. Bacon, Reg. No. 40,494; Michael Berre, Reg. No. 44,023; Jay P. Besle, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 765; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert Diehl, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Fastz, Reg No. 39,873; Christopher Gagne, Reg. No. 36,142; Shasmini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,036; Seth Z. Kalson, Reg. No. 40,670; Peter Lam; Reg. No. 44,855; Issac Lin, Reg. No. 50,872; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemeter, Reg. No. 51,003; Erik M. Matzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,896; Michael J. Neshelwat, Reg. No. 47,819; Dennie A. Nicholls, Reg. No. 42,036; Lanny Perker, Reg. No. 44,281; Alan Pedersen-Glies, Reg. No. 39,998; Michael D. Pilmier, Reg. No. 43,004; Michael Prokach, Rag. No. 43,021; Kevin A. Reif, Reg. No. 38,381; Crystai D. Sayles, Reg. No. 44,316; Russell Scott, Reg. No. 43,103; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skabrat, Reg. No. 38,279; Paul E. Steiner, Reg. No. 41,326; Joni D. Stulmen-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,604; John F. Travie, Reg. No. 49,203; Robert Wawrzyn, Reg. No. 54,654; Calvin E. Wells, Reg. No. 43,258; Stuart Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Wirlde, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sheron Wong, Reg. No. 37,760; and Steven D. Yates, Reg. No. 42,242; my patent attorneys, and my patent egents, of INTEL CORPORATION, with offices located at 2200 Mission College Bivd., Santa Clara, CA 95082, telephone (408)765-8080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent attorneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



### Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good fath in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was clied by the Office or submitted to the Office in the manner prescribed by \$\$1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is meterial to palentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by fiself or in combination with other information, a prima facts case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability railed on by the Office, or
    - (ii) Asserting an argument of patentability.

A prime facte case of unpatentability is established when the information compate a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (a) Individuals associated with the filing or prosecution of a petent application within the meaning of this section are:
  - (1) Each inventor named in the application;
  - (2) Each attorney or agant who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, egent or inventor may comply with this cection by disclosing information to the attorney, egent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application.

DECLARATION AND POWER OF
ATTORNEY FOR PATENT APPLICATION
(37 CFR 1.63)

Declaration
Submitted
with Initial
Filing

or

Declaration
Submitted after initial
Filing (surcharge
(37 CFR 1.16(e))
required)

Attorney Docket Number		42P19120
First Named Inventor Fal		orice Paillet
G	OM	PLETE IF KNOWN
Application Number	10	/808,785
Filing Date	М	arch 24, 2004
Art Unit		
Examiner Name		

#### As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the Invention)	
the specification of which is attached hereto. OR	
was filed on (if applicable):  or  03/24/2004 as United States Application Number _ PCT International Application Number	10/808,785
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Dring	Foreign	Annline	がんかんめい

Prior Foreia	n Application(s):						
Prior F	oreign Application Number(s)	Country		Foreign Filing Date (MM/DD/YYYY)		lority Xaimed	Certified Copy Attached?
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Name	Blakely, Sokoloff,	Taylor & Zafman Ll	.P				
Address	12400 Wilshire Bo	ulevard, 7th Floor					·
City	Los Angeles		State	California		Zip Code	90025
Country		Tele	phone	(408) 720-8300		Fax	(408) 720-8383
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Full Name:				Fabrice Paillet			
Inventor's	Signature	(First, Middle )	if any),	Family Name (or Surni Date		Suffix [if and 16/20	
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Docket No. 42P19120

Hillsboro, Oregon 97124 USA

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ull Name:	David Rennie (First, Middle [if any], Family Name (or Surname), and Suffix [if any])					
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tesidence <u>Etol</u>	picoke, Ontario Canada	Citizenship Canada				
	(City, State, Country)	: (Country)				
Mailing Address	2 Dunsany Cres.	·				
	Etobicoke, Ontario M9R3W6 Canada					
IAME OF THIRD	INVENTOR:	been filed for this undersigned inver				
full Name:	1	Tanay Karnik				
-		ily Name (or Surname), and Suffix [if any])				
nventor's Signati	ure	Date				
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Residence <u>Port</u>	land, Oregon USA (City, State, Country)	Citizenship <u>USA</u> (Country)				
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rull Name:  nventor's Signaturesidence  Portificial Address  IAME OF FIFTH II	(First, Middle [if any], Familiand, Oregon USA (City, State, Country) 1529 NW Slocum Way Portland, Oregon 97229 USA	Jianping Xu ly Name (or Surname), and Suffix [if any])  Date <u>6 (イ子 (                                 </u>				
rull Name:  nventor's Signatu Residence <u>Port</u> failing Address	(First, Middle [if any], Familiand, Oregon USA (City , State, Country) 1529 NW Slocum Way Portland, Oregon 97229 USA	Jianping Xu  by Name (or Surname), and Suffix [if any])  Date <u>6 (17 (200</u> Citizenship <u>USA</u> (Country)  been filed for this undersigned inven				
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## Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filling and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully
  - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filling or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prima facle case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting an argument of patentability.

. A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application;
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.



DECLARATION AND POWER OF		Attorney Docket Number 42P19120		
ATTORNEY FOR PATENT APPLICATION (37 CFR 1.63)		First Named Inventor	Fabrice Paillet	
		COMPLETE IF KNOWN		
			Application Number	10/808,785
Declaration Submitted	Declarati	en d after initial	Filing Date	March 24, 2004
with initial	Filing (all	rcharge	Art Unit	
Filing	(37 CFR required)	* **	Examiner Name	

## As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (If only one name listed below) or an original and joint inventor (If plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the Investion)	1
the specification of which	
☐ Is attached hereto.	
OR	
was filed on (if applicable):  oras United States Application Number	10/909,785
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.58, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 385(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

	ign Application	Country		Foreign Filing Date (MM/DD/YYYY)	Priori Not Clai	med	Certified Copy Attrohed?
							☐Yes ☐No
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Name E	Blakely, Sokoloff,	Taylor & Zafinan L	<u>IP</u>				
Address 1	2400 Wilshire Bo	nilevard, 7th Floor					
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	os Angeles		State	California		Zip Çade	90025
City I				California (408) 720-8300		Zip Code Fax	90025 (408) 720-8383
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ul) Name:		David Requie	44 1
		ily Name (or Surname). and Suffic	
ventor's Signatu	re Darf Rums	Date	11, 2009
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	(City, Sione, Country)		(Country)
alling Address	2 Dunsarry Cres.		
	Etobicoke, Ontario M9R3W6 Canada		
ame of third i	NVENTOR: A petition has	s been filed for this under	signed inventor
ull Name:		Tanay Karnik	
<del></del>	(First, Middle [if any], Fam	ily Mome (or Surname), and Suffix	[if any])
ventor's Signati	ıre	Date	<u> </u>
esidence Port	and, Oregon USA	Citizenship USA	
isiderioe Toil	(City . State, Country)		(Саингу)
ailing Address	3574 NW Blackcomb Drive		•
mini wani con	Portland, Oregon 97229 USA	<del></del>	
uil Name:		Jianping Xu	
211 14G111Q.		ily Name (or Surname), and Suffix	((fany))
ventor's Signati	Jre	Date	
	and, Oregon USA	Citizenship USA	
esidence <u>Port</u>	(City , State, Country)	Old Ellelib	(Country)
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I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Palent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, a firm including; William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Bebbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,931; R. Alen Burnett, Reg. No. 48,148; Gregory D. Caldwell, Reg. No. 39,928; Thomas M. Coester, Reg. No. 39,837; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klark, Reg. No. 48,509; Daniel M. De Vos. Reg. No. 37,813; Sanjeet Dutts. Reg. No. 48,145; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Fernil, Reg. No. 42,532; Angelo J. Gaz, Reg. No. 46,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; J. Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Erio S. Hyman, Reg. No. 30,139; Welter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,168; Steve Laut Reg. No. 47,738; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindsen III, Reg. No. 33,182; Jan C. Little, Reg. No. 41,181; Joseph Litz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 38,591; Andre L. Marsis, Reg. No. 48,095; Raul D. Martinez, Reg. No. 48,904; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima. Reg. No. 42,023; Thirth V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. P-62,107; Marina Portnova, Reg. No. 45,750; James H. Selter, Reg. No. 35,668; William W. Schael, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. 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### Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duly of candor and good taith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending dalm until the cirilm is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the menner prescribed by \$§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filling or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentsibility when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prime facte case of unpatentability of a cisim; or
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- (c) Individuals associated with the filing or prosecution of a patent application within the meahing of this section are:
  - (1) Each inventor named in the application;
  - (2) Each enormey or egent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignes or with anyone to whom there is an obligation to essign the application.
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- (a) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filling date of the continuation-in-part application.



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		ON AND POWER OF	Attorney Docket Nun	nber 42P19120
ATTORNEY		PATENT APPLICATIO	N First Named Invento	Fabrice Paillet
	(37	CFR 1.63)		COMPLETE IF IGNOWN
			Application Number	10/808,785
Declaration Submitted	<b>a</b> n	Declaration Submitted after initial	Filing Date	March 24, 2004
with initial Filing	OR	Filing (surcharge (37 CFR 1.18(e))	Art Unit	
9		(3) CFR 1.18(B))		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SINGLE-ENDED TO DIFFERENTIAL CONVERSION CIRCUIT WITH DUT	Y CYCLE CORRECTION
(Title of the Invention)	****
the specification of which	
☐ is attached hereto.	•
OR .	
was filed on (if applicable):  or as United States Application Number _ PCT International Application Number	10/808,785
and was amended on	(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):
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I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference a part of this document) as my respective patent attorneys and patent agents, with full power substitution and revocation, to prosecute this application and to transact all business in the L Patent and Trademark Office connected herewith.    Direct all correspondence to:	Prior Foreign Ap Number(s		Country	Foreign Filing Date (MM/DD/YYYY)		osity Jaimed	Certified Attach	
					[	]	Yes	No
hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference a part of this document) as my respective patent attorneys and patent agents, with full power substitution and revocation, to prosecute this application and to transact all business in the Locatent and Trademark Office connected herewith.  Direct all correspondence to: Customer Number 08791 or Correspondence address belt to the Blakely, Sokoloff, Taylor & Zafmen LLP  Address 12400 Wilshine Boulevard, 7th Floor  City Los Angeles State California Zp Code 90025  Country Telephone (408) 720-8300 Fax (408) 720-838  Thereby declare that all statements made herein of my own knowledge are true and that all interements made on information and belief are believed to be true; and further that these interements were made with the knowledge that willful false statements and the like so made interements were made with the knowledge that willful false statements and the like so made interements may jeopardize the validity of the application or any patent issued thereon.  IAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this undersigned invention of the library of the patent is and suffix [if any]) inventor's Signature Date  (First, Middle [if any], Family Name (or Surranse), and Suffix [if any]) inventor's Signature Date  (Cambry)		ł			Ε	3	☐Yes	□No
hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference a part of this document) as my respective patent attorneys and patent agents, with full power substitution and revocation, to prosecute this application and to transact all business in the Locatent and Trademark Office connected herewith.  Circut all correspondence to:    Customer Number   08791   or						<b>.</b>	☐Yes	□No
hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference a part of this document) as my respective patent attorneys and patent agents, with full power substitution and revocation, to prosecute this application and to transact all business in the Locatent and Trademark Office connected herewith.  Circut all correspondence to:    Customer Number   08791   or	· •			1 1		<u> </u>	□Yes	□No
a part of this document) as my respective patent attorneys and patent agents, with full power substitution and revocation, to prosecute this application and to transact all business in the Lostent and Trademark Office connected herewith.    Circlet all correspondence to:   Circustorner Number   08791   or   Correspondence address belonged by the content of the correspondence address belonged by the corres		.			_	_		
Blakely, Sokoloff, Taylor & Zafman LLP  Address 12400 Wilshire Boulevard, 7th Floor  City Los Angeles State California Zip Code 90025  Country Telephone (408) 720-8300 Fax (408) 720-838  hereby declare that all statements made herein of my own knowledge are true and that all tatements made on information and belief are believed to be true; and further that these tatements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful alse statements may jeopardize the validity of the application or any patent issued thereon.  AME OF SOLE OR FREST INVENTOR: A petition has been filled for this undersigned inventible Name:  [Fabrice Pattlet]  [First, Middle [If any], Family Name (or Surname), and Suffix [if any])  [If any], Family Name (or Surname), and Suffix [if any])  [If any], State, Country)  [Country]	substitution and re Patent and Trade:	evocation, to pro mark Office conf	secute this a nected herew	pplication and to lith.	transad	et all bus	iness in	the U.S
City Los Angeles  State California  Zip Code 90025  Country  Telephone (408) 720-8300  Fax (408) 720-838  hereby declare that all statements made herein of my own knowledge are true and that all tatements made on information and belief are believed to be true; and further that these tatements were made with the knowledge that willful false statements and the like so made re punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful alse statements may jeopardize the validity of the application or any patent issued thereon.  AME OF SOLE OR FIRST INVENTOR:  [A petition has been filed for this undersigned inventible will Name:  [Fabrice Paillet  [First, Middle [if any], Family Name (or Surmane), and Suffix [if any])  [If any]]		Sokoloff, Taylor & Z	afman LLP					
Country  Telephone (408) 720-8300  Fax (408) 720-838  hereby declare that all statements made herein of my own knowledge are true and that all tatements made on information and belief are believed to be true; and further that these tatements were made with the knowledge that willful false statements and the like so made re punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful alse statements may jeopardize the validity of the application or any patent issued thereon.  AME OF SOLE OR FIRST INVENTOR:  [] A petition has been filed for this undersigned inventible in the like so made of the properties of t	Address 12400 W	Vilshire Boulevard, 70	h Fioor			<u> </u>	•	
hereby declare that all statements made herein of my own knowledge are true and that all tatements made on information and belief are believed to be true; and further that these betements were made with the knowledge that willful false statements and the like so made re punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful alse statements may jeopardize the validity of the application or any patent issued thereon.  AME OF SOLE OR FIRST INVENTOR: A petition has been filed for this undersigned inventil Name:    Fabrice Paillet   (First, Middle [if any], Family Name (or Surname), and Suffix [if any])		•						
tatements made on information and belief are believed to be true; and further that these tatements were made with the knowledge that willful false statements and the like so made re punishable by fine or imprisonment, or both, under 18 U.S.C. 1901 and that such willful alse statements may jeopardize the validity of the application or any patent issued thereon.  AME OF SOLE OR FIRST INVENTOR: A petition has been filed for this undersigned inventil Name:    Fabrice Pattet   (First, Middle [if any], Family Name (or Surname), and Suffix [if any])	City Los Ang	ClC3	State	California		Zip Code	90025	
(First, Middle [if any], Family Name (or Surname), and Suffix [if any])  ventor's Signature Date  esidence Hillsborn, Oregon USA Citizenship France  (City, State, Country) (Country)		cles	<del></del>			·		20-8383
esidence Hillstorn, Oregon USA Citizenship France (City, State, Country) (Country)	hereby declare the tatements made tatements were a re punishable by alse statements n	hat all statement on information a nade with the kn fine or imprison nay jeopardize th	Telephone is made here and belief are owledge that ment, or both he validity of	(408) 720-8300 in of my own know believed to be truwillful false stater a, under 18 U.S.C. the application or	ie; end ments ( . 1901 any pa	Fax are true I further to and the li and that atent issu	(408) 7. and that that thes ke so mi such will usd there	all e ade ilful eon.
esidence Hillsboro, Oregon USA Citizenship France (Country) (Country)	Country hereby declare to tatements made tatements were a re punishable by alse statements n  AME OF SOLE OF	hat all statement on information a nade with the kn fine or imprison nay jeopardize th	Telephone is made here and belief are owledge that ment, or both he validity of	(408) 720-8300 in of my own know believed to be truwillful false stater, under 18 U.S.C. the application or etition has been fi	ie; end ments ( . 1901 any pa	Fax are true I further to and the li and that atent issu	(408) 7. and that that thes ke so mi such will usd there	all e ade ilful eon.
(City, State, Country) (Country)	Country  hereby declare to tatements made tatements were a tre punishable by alse statements in AME OF SOLE OF	hat all statement on information a nade with the kno fine or imprison may jeopardize the R FRRST INVENTO	Telephone is made here and belief are owledge that ment, or both he validity of	in of my own know believed to be truwillful false stater, under 18 U.S.C. the application or etition has been fi	ie; and ments a . 1001 any pa led for	are true further t and the li and that atent issu	(408) 7. and that that thes ke so me such will used there ersigned	all e ade ilful eon.
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ailing Address 1601 NR 64th Avenue	Country  hereby declare the tatements made tatements were noted by alse statements in the control of the contro	hat all statement on information a nade with the kni- fine or imprison may jeopardize the R FIRST INVENTY (First,	Telephone is made here and belief are owledge that ment, or both he validity of	(408) 720-8300 in of my own know believed to be truwilful false stater a, under 18 U.S.C. the application or etition has been fi	ie; and ments i . 1001 any pa led for	are true further tand the li and that atent issu this und	(408) 7. and that that thes ke so me such will used there ersigned	all e ade ilful eon.
Hillsboro, Oreson 97124 USA	hereby declare to tatements made tatements were no re punishable by alse statements no AME OF SOLE OF	hat all statement on information a nade with the kno- fine or imprison may jeopardize the R FIRST INVENTO (First, Fe.	Telephone is made here and belief are owledge that ment, or both he validity of  OR: A po  Middle [if any].	(408) 720-8300 in of my own know believed to be truwilful false stater a, under 18 U.S.C. the application or etition has been fi	ie; and ments i . 1001 any pa led for	are true further tand the li and that atent issu this und	(408) 77 and that that thes ke so mi such will used there ersigned	all e ade ilful eon.

(First, Middle (if any), Family Name (or Surname), and Suffix (if any))  pentor's Signature	ull Name:		David Rennie
sidence   Elobicoks, Onterio Canada   Citizenship   Canada   (Country)	JII 1401110.	(First, Middle (if any), Fa	
Sidence Etobicoke, Ontario Canada (City, State, Country)  (Constry)  (Country)	ventor's Signat		
Country   Country   Country   Country   Country	_		
Etobicoke, Orderio MSR3W6 Censide	sidence <u>Et</u> o		· · · · · · · · · · · · · · · · · · ·
Elobicole, Onterio MSR3W6 Capada  ME OF THIRD INVENTOR: A petition has been filed for this undersigned invento in Name:  Tensy Karnik  Tensy Karnik  Tentor's Signature  Sidence Portland, Oregon USA  City, State, Country)  Country)  Siling Address  Sidence Portland, Oregon 97229 USA  ME OF FOURTH INVENTOR: A petition has been filed for this undersigned invento in Name:  (First, Middle [1f any], Family Name (or Surname), and Suffix [1f any])  Pentor's Signature  Sidence Portland, Oregon USA  (City, State, Country)  Citizenship USA  (City, State, Country)  (Country)  Sidence Portland, Oregon USA  (City, State, Country)  (Country)  (Country)  Citizenship USA  (City, State, Country)  (Country)  Date  (City, State, Country)  (Country)  (Country)  Country)  (Country)	*** * * * *		(Country)
INME OF THIRD INVENTOR: A petition has been filed for this undersigned inventors.  If Iname: Tensy Kernik  Iname: Tensy Kernik  Iname: Tensy Kernik  Iname: Or Surname), and Suffix (g' any))  Iname: Or Surname), and Suffix (g' any))  Iname: Or Surname), INMA  Iname: In	ailing Address		
In Name:  Tanay Karnik  Tentor's Signature  Date  Gild D4  Sidence Portland, Oregon USA  City, State, Country)		EROSCOKE, CIERRO MSRSWO CERROR	
In Name:  Tensy Karnik  Tentor's Signature  Date  G   G   D    Sidence Portland, Oregon USA  City, State, Country)			
In Name:  Tensy Karnik  Tentor's Signature  Date  G   G   D    Sidence Portland, Oregon USA  City, State, Country)			
rentor's Signature    Portland, Oregon USA	AME OF THIRD	INVENTOR: A petition ha	s been thea for this undersigned invel
rentor's Signature    Portland, Oregon USA	ill Name:	-	Tanav Karnik
Sidence Portland, Oregon USA (Ctty, State, Country) (Country)  (ME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventor.  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Pentor's Signature  Sidence Portland, Oregon USA (City, State, Country)  (Country)		(First, Middle [if any], Far	
(City, State, Country) (Country)    Country   State, Country   (Country)	ventor's Signat	ture //	Date 6/16/04
(City, State, Country) (Country)    Country   State, Country   (Country)	<del>"</del> .	1	<del></del>
A petition has been filed for this undersigned inventors   A petition has been filed for this undersigned inventors	esidence <u>Por</u>		
Portiand, Oregon 97229 USA  ME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventor.   A petition has been filed for this undersigned inventor.   Blanching Xu		(City, State, Country)	(Country)
ME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventors.    Name:   Jianping Xu	ailing Address		
ME OF FOURTH INVENTOR: A petition has been filed for this undersigned inventors.    Name:   Jianping Xu		Portland, Oregon 97229 USA	
(First, Middle [if any], Family Name (or Surname), and Suffix [if any])  rentor's Signature    Date	AME OF FOURT	TH INVENTOR: A petition ha	s been filed for this undersigned inver
sidence Porfland, Ozegon USA Cittzenship USA (City, State, Country) (Country)  Illing Address 1529 NW Slocum Way Portland, Ozegon 97229 USA  ME OF FIFTH INVENTOR: A petition has been filed for this undersigned invento  Il Name:  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  Pentor's Signature Date  (City, State, Country) (Country)		TH INVENTOR: A petition ha	
sidence Porfland, Oregon USA Citizenship USA  (City, State, Country) (Country)  Illing Address  1529 NW Slocum Way  Portland, Oregon 97229 USA  ME OF FIFTH INVENTOR: A petition has been filed for this undersigned invento  Il Name:  (First, Middle [If any], Family Name (or Surname), and Suffix [If any])  Pentor's Signature Date  (City, State, Country)  (Country)			Jianping Xu
(City , State, Country)    Country   (Country)	ull Name:	(First, Middle [tf any], Fca	Jianping Xu  sty Name (or Surname), and Suffix [if any])
1529 NW Stocum Way   Portland, Oregon 97229 USA     ME OF FIFTH INVENTOR:	ufi Name:	(First, Middle [tf any], Fca	Jianping Xu  sty Name (or Surname), and Suffix [if any])
Portland, Oregon 97229 USA  ME OF FIFTH INVENTOR: A petition has been filed for this undersigned invento  Name:  (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  rentor's Signature  Date  (City, State, Country)  (Country)	ull Name:	(First, Middle [tf any), Fas ture fland, Osegon USA	Jianping Xu  Ally Name (or Surname), and Suffix [if any])  Date  Citizenship USA
ME OF FIFTH INVENTOR: A petition has been filed for this undersigned invento    Name:	ull Name:	(First, Middle [tf any), Fas ture fland, Osegon USA	Jianping Xu  Ally Name (or Surname), and Suffix [if any])  Date  Citizenship USA
## Name:  ## (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  ## Pentor's Signature    Date	ull Name: ventor's Signat	(First, Middle [tf ang], Fan ture fland, Oregon USA (City , State, Country)	Jianping Xu  Ally Name (or Surname), and Suffix [if any])  Date  Citizenship USA
## Name:  ## (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  ## Pentor's Signature    Date	uli Name:ventor's Signat	(First, Middle [tf ang], Fan ture fland, Oregon USA (City , State, Country) 1529 NW Slocum Way	Jianping Xu  Ally Name (or Surname), and Suffix [if any])  Date  Citizenship USA
## Name:  ## (First, Middle [if any], Family Name (or Surname), and Suffix [if any])  ## Pentor's Signature    Date	ruil Name:  nventor's Signat Residence Por	(First, Middle [tf ang], Fan ture fland, Oregon USA (City , State, Country) 1529 NW Slocum Way	Jianping Xu  Ally Name (or Surname), and Suffix [if any])  Date  Citizenship USA
(First, Middle [If any], Family Name (or Surname), and Suffix [If any])  rentor's Signature Date  Citizenship  (City , State, Country) (Country)	ull Name:  nventor's Signat Residence Por failing Address	(First, Middle [tf ang), Fan ture fland, Oregon USA (City , State, Country) 1529 NW Slocum Way Portland, Oregon 97229 USA	Jianping Xu  nily Name (or Surname), and Suffix [if any])  Date  Cittzenship USA  (Country)
(First, Middle [If any], Family Name (or Surname), and Suffix [If any])  rentor's Signature Date  Citizenship  (City , State, Country) (Country)	ull Name:  nventor's Signat tesidence Por falling Address	(First, Middle [tf ang), Fan ture fland, Oregon USA (City , State, Country) 1529 NW Slocum Way Portland, Oregon 97229 USA	Jianping Xu  nily Name (or Surname), and Suffix [if any])  Date  Cittzenship USA  (Country)
sidence Citizenship (City , State, Country) (Country)	ull Name:  nventor's Signat tesidence Por talling Address	(First, Middle [tf ang), Fan ture fland, Oregon USA (City , State, Country) 1529 NW Slocum Way Portland, Oregon 97229 USA	Jianping Xu  nily Name (or Surname), and Suffix [if any])  Date  Cittzenship USA  (Country)
Gidence Citizenship (Ctty , State, Country) (Country)  Hilling Address	ull Name:  nventor's Signat esidence Por lailing Address  AME OF FIFTH	(First, Middle [tf ang), Fanture  fland, Oregon USA (City, State, Country) 1529 NW Slocum Way Portland, Oregon 97229 USA  INVENTOR:   A petition ha	Jianping Xu  ntly Name (or Surname), and Suffix [if any])  Date  Cittzenship USA  (Country)  s been filed for this undersigned inver
(City , State, Country) (Country)	ull Name:  nventor's Signat tesidence Por lailing Address  IAME OF FIFTH full Name:	(First, Middle [if ang], Fancture  fland, Oregon USA  (City, State, Country)  1529 NW Slocum Way  Portland, Oregon 97229 USA  INVENTOR: A petition ha	Jianphag Xu  The Name (or Surname), and Suffix [if any])  Date  Cittzenship USA  (Country)  s been filed for this undersigned invertible Name (or Surname), and Suffix [if any])
(City , State, Country) (Country)	ruil Name:  nventor's Signat Residence Por failing Address  IAME OF FIFTH	(First, Middle [if ang], Fancture  fland, Oregon USA  (City, State, Country)  1529 NW Slocum Way  Portland, Oregon 97229 USA  INVENTOR: A petition ha	Jianphag Xu  The Name (or Surname), and Suffix [if any])  Date  Cittzenship USA  (Country)  s been filed for this undersigned invertible Name (or Surname), and Suffix [if any])
Hing Address	rull Name:  nventor's Signat Residence Por falling Address  IAME OF FIFTH Full Name:  nventor's Signat	(First, Middle [if ang], Fancture  fland, Oregon USA  (City, State, Country)  1529 NW Slocum Way  Portland, Oregon 97229 USA  INVENTOR: A petition ha	Jianphag Xu  The Name (or Surname), and Suffix [if any])  Date  Citizenship USA  (Country)  s been filed for this undersigned invertible Name (or Surname), and Suffix [if any])  Date
	ull Name:  nventor's Signat tesidence Por lailing Address  IAME OF FIFTH full Name:	(First, Middle [if ang], Fancture  fland, Oregon USA  (City, State, Country)  1529 NW Slocum Way  Portland, Oregon 97229 USA  INVENTOR: A petition ha	Jianphag Xu  The Name (or Surname), and Suffix [if any])  Date  Citizenship USA  (Country)  s been filed for this undersigned invertible Name (or Surname), and Suffix [if any])  Date  Citizenship
	ull Name:  ventor's Signates lalling Address  AME OF FIFTH  ull Name:  ventor's Signates	(First, Middle [if ang], Fancture  fland, Oregon USA  (City, State, Country)  1529 NW Slocum Way  Portland, Oregon 97229 USA  INVENTOR: A petition ha	Jianphag Xu  The Name (or Surname), and Suffix [if any])  Date  Citizenship USA  (Country)  s been filed for this undersigned invertible Name (or Surname), and Suffix [if any])  Date  Citizenship
	ull Name:  ventor's Signates lalling Address  AME OF FIFTH  ull Name:	(First, Middle [if ang], Fancture  fland, Oregon USA  (City, State, Country)  1529 NW Slocum Way  Portland, Oregon 97229 USA  INVENTOR: A petition ha	Jianphag Xu  The Name (or Surname), and Suffix [if any])  Date  Citizenship USA  (Country)  s been filed for this undersigned invertible Name (or Surname), and Suffix [if any])  Date  Citizenship



I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, a firm including: William E. Alford, Reg. No. 37,784; Farzad E. Amini, Reg. No. 42,261; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Tedd. M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 48,149; Gregory D. Caldwell, Reg. No. 39,926; Thomas M. Coester, Reg. No. 39,697; Mint D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,813; Sanjeet Dutts, Reg. No. 46,145; Tarek N. Fatuni, Reg. No. 41,402; Thomas S. Ferriti, Reg. No. 42,532; Angelo J. Gaz., Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; J. Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,892; Eric S. Hyman, Reg. No. 30,138; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Steve Lauf, Reg. No. 47,738; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindeen III, Reg. No. 33,192; Jan C. Little, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,765; Michael J. Maille, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Raul D. Martinez, Rep. No. 46,904; Paul A. Mendonsa, Reg. No. 42,679; Jonethan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyan, Reg. No. 42,034; Robert B. O'Rourice, Reg. No. 46,972; Deniel E. Ovanezian, No. 42,025; Firm V. Nguyan, Neg. No. 42,034; Robert S. Ortouria, Neg. No. 45,750; James H. Selter, Reg. No. 41,238; Philip A. Pedigo, Reg. No. 9-52,107; Marina Potinova, Reg. No. 31,195; Kevin G. Shao, Reg. No. 35,668; William W. Scheal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,098; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Liss Tom, Reg. No. P-52,291; Kerry D. Tweet, Reg. No. 45,059; Mark C. Ven Ness, Reg. No. 39,886; The Committee of the C Thomas A. Van Zandt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 48,322; Thomas C. Webster, Reg. No. 48,154; C. Teresa Wong, Reg. No. 48,042; and Norman Zarman, Reg. No. 26,250; my patent attorneys, and Brent E. Vecchia, Reg. No. 46,011, and Lehua Wang, Reg. No. 48,023; my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor Los Angeles, California 90025, telephone (310) 207-3800. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael Barre, Reg. No. 44,023; Jay P. Besie, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; Robert Chang, Reg. No. 48, 765; George Cherr, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Coot, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,810; Robert Clehi, Reg. No. 35,118; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Fastz, Reg No. 39,973; Christopher Gagne, Reg. No. 35,142; Shamrini N. Green, Reg. No. 41,410; Robert Greenberg, Reg. No. 44,133; Bradley Greenwald, Reg. No. 34,341; Libby Hope, Reg. No. 46,774; Jeffrey B. Huter, Reg. No. 41,088; Seth Z. Kalson, Reg. No. 40,670; Peter Lam, Reg. No. 44,858; Issac Lin, Reg. No. 50,672; Anthony Martinez, Reg. No. 44,223; Molly McCall, Reg. No. 46,126; Larry Mennemaler, Reg. No. 51,003; Erik M. Metzger, Reg. No. 53,320; Paul Nagy, Reg. No. 37,696; Michael J. Neshelwel, Reg. No. 47,619; Dennis A. Nichottie, Reg. No. 42,036; Lanny Partier, Reg. No. 44,281; Alain Pedarson-Giles, Reg. No. 39,996; Michael D. Pilmier, Reg. No. 43,004; Michael Protech, Reg. No. 43,021; Kevis A. Relf, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Russell Scott, Reg. No. 43,103; Kennsth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shah, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skabrat, Reg. No. 36,279; Paul E. Steiner, Reg. No. 41,328; Jont D. Stufman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,604; John F. Travis, Reg. No. 43,203; Robert Wawrzyn, Reg. No. 54,654; Calvin E. Welle, Reg. No. 43,256; Stuart Whittington, Reg. No. 45,215; Michael Willardson, Reg. No. 50,856; Robert Winide, Reg. No. 37,474; Rita Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; and Steven D. Yates, Reg. No. 42,242; my patent attorneys, and my patent agents, of INTEL CORPORATION, with offices located at 2200 Mission College Bivd., Santa Clars, CA 95062, telephone (408)765-6080; and James R. Thein, Reg. No. 31,710, and John F. Kacvinsky, Reg. No. 40,040, my patent attorneys; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.



# Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and presecution of a patent application has a duty of candor and good faith in dualing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of disclose all information known to be material to patentability of any claim issued in a patent was olted by the Office or submitted to the Office is the manner prescribed by \$\frac{2}{2}1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office secondary and of the disclosure was violated through bad faith or intentional misconduct.
  - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not oursulative to information already of record or being made of record in the application, and
  - (1) It eatablishes, by itself or in combination with other information, a prima facto case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting an argument of patentability.

A prima facto case of unpatentability is setablished when the information compets a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim is broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application:
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information knows to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application.